

Time	Title/Event	Moderator(s)	Speakers	Location
<b>Thursday, October 5</b>				
6:00 AM - 6:20 PM	Registration			Salon I-V Hallway
6:30 AM - 7:00 AM	Breakfast			Dining Room
7:00 AM - 3:55 PM	BrightFocus Glaucoma Fast Track			Amphitheatre
7:00 AM - 7:15 AM	Introduction			Amphitheatre
7:15 AM - 8:10 AM	Genetics and Epidemiology of Glaucoma		Janey Wiggs, MD, PhD	Amphitheatre
8:10 AM - 9:05 AM	Clinical Diagnosis (Including Functional and Imaging Technologies) and Management of Glaucoma		Arthur Sit, MD	Amphitheatre
9:05 AM - 10:00 AM	Anatomy, Biochemistry and Pathology of Aqueous Humor Outflow		Ernst Tamm, MD	Amphitheatre
10:00 AM - 10:20 AM	Break			Amphitheatre Break Area
10:20 AM - 11:15 AM	Pharmacology and Physiology (Including Model Systems) of Aqueous Humor Outflow		W. Daniel Stamer, PhD	Amphitheatre
11:15 AM - 12:10 AM	Pathophysiology of Glaucomatous Optic Nerve Damage in the Human and Non-Human Primate		Claude Burgoyne, MD	Amphitheatre
12:10 AM - 1:00 PM	Lunch			Dining Room
1:00 PM - 1:55 PM	Experimental Outflow Obstruction to Study Pressure-Induced Optic Nerve Damage		Shandiz Tehrani, MD, PhD	Amphitheatre
1:55 PM - 2:50 PM	Inducible and Genetic Models of Glaucoma		Abbot F. Clark, PhD	Amphitheatre
2:50 PM - 3:00 PM	Quick Break			Amphitheatre Break Area
3:00 PM - 3:55 PM	Retinal Ganglion Cell Death in Glaucoma		Robert W. Nickells, PhD	Amphitheatre
4:15 PM - 5:35 PM	Platform Session I: Imaging, From Bench to Bedside	Joel Schuman, MD Brian Samuels, MD, PhD		Amphitheatre
4:15 PM - 4:35 PM	LIVE IMAGING OF RETINAL PERICYTES: EVIDENCE FOR EARLY CALCIUM UPTAKE, CAPILLARY CONSTRICTION AND VASCULAR DYSREGULATION IN OCULAR HYPERTENSION GLAUCOMA		Luis Alarcon-Martinez, PhD	
4:35 PM - 4:55 PM	SPECTRAL IMAGING OF THE HUMAN OPTIC NERVE HEAD CONNECTIVE TISSUE		Laura Paletto BSc, MSc	
4:55 PM - 5:15 PM	THE LINK BETWEEN ACCOMMODATION PRESBYOPIA AND GLAUCOMA		Paul L. Kaufman MD, PhD	
5:15 PM - 5:35 PM	EVIDENCE OF OPTIC NERVE HEAD RIM TISSUE COMPRESSION IN EARLY GLAUCOMA		Brad Fortune, OD, PhD	
5:35 PM - 6:20 PM	Keynote Lecture I: Glaucoma Imaging - What We See and What We Want to See		Leopold Schmetterer, PhD	Amphitheatre
6:30 PM - 7:30 PM	Welcome Reception			Salons III-V + Garden Overlook
7:30 PM - 9:30 PM	Dinner			Dining Room
<b>Friday, October 6</b>				
6:30 AM - 8:00 AM	Breakfast			Dining Room
6:30 AM - 6:20 PM	Registration			Salon I-V Hallway
8:00 AM - 8:45 AM	Keynote Lecture II: Imaging Retinal Ganglion Cells		Balwantray Chauhan, PhD	Amphitheatre
8:45 AM - 10:05 AM	Platform Session II: Clinical and Translational Studies	Paul L Kaufman, MD Rachel Kuchtey, PhD		Amphitheatre
8:45 AM - 9:05 AM	LONG NOSES AND PROTECTIVE EYE SHIELDS BOTH REDUCE LIMBAL STRAIN VARIABILITY AND MAGNITUDE DURING SIMULATED SLEEP IN ADULTS WITH GLAUCOMA		Alison Flatau, PhD	
9:05 AM - 9:25 AM	RISK OF INDIRECT INGUINAL HERNIA (IIH) IS INCREASED IN MALE PATIENTS WITH EXFOLIATION SYNDROME: THE UTAH PROJECT ON EXFOLIATION SYNDROME (UPEXS).		Brian M. Besch	
9:25 AM - 9:45 AM	NITRIC OXIDE SUPPLEMENTATION TO TREAT SEVERE GLAUCOMA IN A PATIENT WITH eNOS T-786C POLYMORPHISM		Sravanthi Vegunta, MD	
9:45 AM - 10:05 AM	ANGIOTENSIN II TYPE 1 RECEPTOR BLOCKERS MODULATE TRANSFORMING GROWTH FACTOR BETA SIGNALING IN RETINA AND REDUCE IOP IN NORMAL MICE		Ralph J. Hazlewood II, PhD	
10:05 AM - 10:30 AM	Break and Poster Viewing			Salons III-V + Garden Overlook
10:30 AM - 12:30 PM	Platform Session III: Hot Topics	Christopher Girkin, MD Jeff Goldberg, MD		Amphitheatre
10:30 AM - 10:50 AM	RESPONSE OF THE TRILAMINAR RETINAL VESSEL NETWORK TO IOP ELEVATION IN RAT EYES		Bang V. Bui, PhD	
10:50 AM - 11:10 AM	THE ROLE OF Wnt SIGNALING IN GLUCOCORTICOID-INDUCED GLAUCOMA		Weiming Mao, PhD	
11:10 AM - 11:30 AM	A NOVEL SMALL MOLECULE INHIBITS FIBROGENESIS IN HUMAN TRABECULAR MESHWORK CELLS		Chan Young Park, PhD	
11:30 AM - 11:50 AM	ENHANCED LENTIVIRAL-MEDIATED GENE DELIVERY TO TM CELLS IN VITRO AND TM CELLS IN EYE ORGAN CULTURE		Curtis R. Brandt, Ph.D.	
11:50 AM - 12:10 PM	INVESTIGATING THE MECHANISM OF EXTENDED IOP REDUCTION BY 9856i		Darryl R. Overby, PhD	
12:10 PM - 12:30 PM	TRANSCRIPTIONAL REGULATION OF PRO-INFLAMMATORY CYTOKINES BY HIF-1 $\alpha$ IN GLAUCOMA MODEL		Shahid Husain	
12:30 PM - 1:45 PM	Lunch			Dining Room
1:45 PM - 3:05 PM	Platform Session IV: Animal Models	Ted Acott, PhD Gillian McLellan, PhD		Amphitheatre
1:45 PM - 2:05 PM	TESTING AND VALIDATION OF A NEW CEREBROSPINAL FLUID PRESSURE (CSFP) TELEMETRY SENSOR		J. Crawford Downs, PhD	
2:05 PM - 2:25 PM	ROUND-THE-CLOCK MEASUREMENT AND MANIPULATION OF IOP IN RATS		Christopher L Passaglia, PhD	
2:25 PM - 2:45 PM	THE TREE SHREW MODEL OF GLAUCOMA		Brian C. Samuels, MD, PhD	
2:45 PM - 3:05 PM	OPTOGENETIC REGULATION OF EYE PRESSURE		Yang Sun MD, PhD.	
3:05 PM - 3:35 PM	Break and Poster Viewing			Salons III-V + Garden Overlook

3:35 PM - 5:35 PM	Platform Session V: Genetics	Gareth Howell, PhD Yvonne Ou, MD		Amphitheatre
3:35 PM - 3:55 PM	PRESERVING AGING VASCULATURE IN THE OPTIC NERVE HEAD TO PREVENT GLAUCOMA		Rebecca A. Buchanan, BS	
3:55 PM - 4:15 PM	GENOMIC LOCUS MODULATING CORNEAL THICKNESS IN THE MOUSE IDENTIFIES POU6F2 AS A POTENTIAL RISK OF DEVELOPING GLAUCOMA		Eldon E. Geisert, PhD	
4:15 PM - 4:35 PM	DIGENIC AND PHYSICAL INTERACTION OF GENES IN PRIMARY CONGENITAL GLAUCOMA SYSTEMS GENETICS IDENTIFIES A ROLE FOR CACNA2D1 REGULATION IN ELEVATED		Subhabrata Chakrabarti, PhD	
4:35 PM - 4:55 PM	INTRAOCULAR PRESSURE AND GLAUCOMA SUSCEPTIBILITY		Monica M. Jablonski, PhD, FARVO	
4:55 PM - 5:15 PM	UPREGULATION OF MYOCILIN EXPRESSION IN Pro370Leu MYOCILIN MUTANT TM CELLS USING GENOME EDITING		Xinbo Li, PhD	
5:15 PM - 5:35 PM	MYOCILIN STRUCTURE AND MISFOLDING		Raquel L. Lieberman, PhD	
5:35 PM - 6:20 PM	Keynote Lecture III: Primary Open-Angle Glaucoma Genetics: Insights into a Complex Disease		Janey Wiggs, MD, PhD	Amphitheatre
6:30 PM - 7:30 PM	Poster Reception			Salons III-V + Garden Overlook
7:30 PM - 9:30 PM	Dinner			Dining Room
<b>Saturday, October 7</b>				
7:00 AM - 8:00 AM	Breakfast			Dining Room
7:00 AM - 6:20 PM	Registration			Salon I-V Hallway
8:00 AM - 8:45 AM	Keynote Lecture IV: Aqueous Humor Outflow and Beyond - Failure of Molecular Homeostasis in Glaucoma		Ernst Tamm, MD	Amphitheatre
8:45 AM - 10:05 AM	Platform Session VI: Young Investigators	Tatjana Jakobs, MD Jeremy Sivak, PhD		Amphitheatre
8:45 AM - 9:01 AM	THE BAX ACTIVATION MECHANISM REMAINS ACTIVE IN THE RGCs OF BAX DEFICIENT MICE FOR SEVERAL MONTHS FOLLOWING OPTIC NERVE CRUSH		Ryan J. Donahue	
9:01 AM - 9:17 AM	DIFFERENTIALLY EXPRESSED microRNAs IN THE AQUEOUS HUMOR OF PATIENTS WITH EXFOLIATION GLAUCOMA OR PRIMARY OPEN-ANGLE GLAUCOMA		Michelle D. Drewry	
9:17 AM - 9:33 AM	REPETITIVE STRESS AND STRAIN DURING A CONTROLLED ELEVATION OF IOP INCREASES RETINAL GANGLION CELL DYSFUNCTION AND OPTIC NERVE INJURY		Hari Jayaram, MA BMBCh PhD FRCSed	
9:33 AM - 9:49 AM	INDUCIBLE MMP-3 EXPRESSION IN A STEROID-INDUCED MURINE MODEL OF GLAUCOMA		Jeffrey O'Callaghan, BA	
9:49 AM - 10:05 AM	IMPAIRED CEREBROSPINAL FLUID FLOW INTO THE OPTIC NERVE IN GLAUCOMA		Emily Mathieu, BSc	
10:05 AM - 10:30 AM	Coffee Break			Salons III-V + Garden Overlook
10:30 AM - 12:30 PM	Platform Session VII: Glia	Monica Vetter, PhD Yang Hu, PhD		Amphitheatre
10:30 AM - 10:50 AM	LINKING IOP ELEVATION TO INFLAMMATION THROUGH ATP		Claire Mitchell, PhD	
10:50 AM - 11:10 AM	MYELIN-RELATED PROTEIN ALTERATIONS IN THE OPTIC NERVE HEAD (ONH) OF NON-HUMAN PRIMATES (NHP) WITH EARLY EXPERIMENTAL GLAUCOMA (EEG).		Cheri Stowell, PhD	
11:10 AM - 11:30 AM	DO MICROGLIA ENGULF "LIVING" NEURONS?		Felix Vazquez-Chona	
11:30 AM - 11:50 AM	FUNCTIONAL ROLE OF cAMP IN OXIDATIVE STRESS-INDUCED OPTIC NERVE HEAD ASTROCYTES		Won-Kyu Ju	
11:50 AM - 12:10 PM	ASTROCYTE-PRODUCED LIPID MEDIATORS LXA4 and LXB4 PROTECT RETINAL GANGLION CELLS FROM ACUTE AND CHRONIC INJURY		Jeremy M. Sivak, PhD	
12:10 PM - 12:30 PM	DEBRIS IN THE OPTIC NERVE IN MOUSE DEVELOPMENT AND GLAUCOMA		Nicholas Marsh-Armstrong, PhD	
12:30 PM - 1:45 PM	Lunch			Dining Room
1:45 PM - 3:45 PM	Platform Session VIII: Neurodegeneration	Claire Mitchell, PhD Colleen McDowell, PhD		Amphitheatre
1:45 PM - 2:05 PM	TARGETING THE FAS RECEPTOR IN A MOUSE MODEL OF GLAUCOMA PROVIDES SIGNIFICANT NEUROPROTECTION VIA INHIBITION OF INFLAMMATION AND APOPTOSIS		Meredith Gregory-Ksander, PhD	
2:05 PM - 2:25 PM	OPTIC NERVE INJURY-INDUCED ER STRESS AND NEURODEGENERATION IN OPTIC NEUROPATHIES		Yang Hu, MD, Ph.D	
2:25 PM - 2:45 PM	COMBINED DEFICIENCY OF JUN AND DDIT3 (CHOP) PROVIDE ADDITIVE, NEAR COMPLETE PROTECTION TO RETINAL GANGLION CELLS AFTER OPTIC NERVE INJURY		Richard T Libby, PhD	
2:45 PM - 3:05 PM	KINETICS OF BAX RECRUITMENT IN RGCs AFTER OPTIC NERVE DAMAGE		Robert W. Nickells, PhD	
3:05 PM - 3:25 PM	IDENTIFICATION OF GSK-3 AND MAP4K4 FAMILY MEMBERS AS MEDIATORS OF PRIMARY RGC CELL DEATH		Derek S. Welsbie, MD, PhD	
3:25 PM - 3:45 PM	AUTOPHAGY IN THE NEURORETINA AND ANGLE REGION OF DBA/2J MICE		Paloma B. Liton, PhD	
3:45 PM - 4:15 PM	Break			Salons III-V + Garden Overlook
4:15 PM - 5:35 PM	Platform Session IX: Biomechanics	Harry Quigley, MD Ian Sigal, PhD		Amphitheatre
4:15 PM - 4:35 PM	IRIS IS MECHANICALLY STIFFER IN PATIENTS WITH OCCLUDABLE ANGLES POST LASER PERIPHERAL IRIODOTOMY		Rouzbeh Amini, PhD	
4:35 PM - 4:55 PM	BIOMECHANICS OF THE OPTIC NERVE HEAD OF HUMAN AND MOUSE EYES		Thao D. Nguyen, PhD	
4:55 PM - 5:15 PM	INCORPORATING PRE-EXISTING STRESS AND REALISTIC ANISOTROPIC MATERIAL PROPERTIES INTO EYE-SPECIFIC MODELS OF THE HUMAN OPTIC NERVE HEAD		Rafael Grytz, PhD	
5:15 PM - 5:35 PM	DIFFERENTIAL MIRNA AND MRNA EXPRESSION IN RESPONSE TO MECHANICAL STRAIN IN PRIMARY HUMAN TRABECULAR MESHWORK CELLS		Yutao Liu, MD, PhD	
5:35 PM - 6:20 PM	Keynote Lecture V: High "TEK" Solutions for Glaucoma		Susan E. Quaggin, MD	Amphitheatre
6:30 PM - 9:00 PM	Awards Reception and Dinner			Salons I-III
<b>Sunday, October 8</b>				
7:00 AM - 8:00 AM	Breakfast			Dining Room
7:00 AM - 1:00 PM	Registration			Salon I-V Hallway
8:00 AM - 10:00 AM	Platform Session X: Pharmacology	Paloma Liton, PhD Darryl Overby, PhD		Amphitheatre
8:00 AM - 8:20 AM	TRPV4 CHANNELS ACT AS A CONTROL SWITCH FOR HEMICHANNEL OPENING AND AUTOCRINE REGULATION OF NPE FUNCTION.		Nick Delamere Ph.D.	

8:20 AM - 8:40 AM	TADALAFIL TREATMENT ATTENUATES RETINOPATHY IN ANIMAL MODELS OF PRIMARY OPEN ANGLE GLAUCOMA		Lauren Katie Wareham, PhD	
8:40 AM - 9:00 AM	EFFECT OF CKLP1 ON AQUEOUS HUMOR DYNAMICS AND FEASIBILITY OF COMBINATION TREATMENT WITH EXISTING OCULAR HYPOTENSION MEDICATIONS		Uttio Roy Chowdhury, PhD	
9:00 AM - 9:20 AM	INTERLEUKIN-20 (IL20) SIGNALING IN TRABECULAR MESHWORK (TM) CELLS AND THE EFFECTS ON OUTFLOW RATES IN PERFUSION CULTURE.		Mary K. Wirtz, Ph.D.	
9:20 AM - 9:40 AM	FUNCTION OF CAV1/CAVEOLAE AS MECHANOSENSORS/MECHANOPROTECTORS IN THE CONVENTIONAL OUTFLOW PATHWAY		Michael H. Elliott, PhD	
9:40 AM - 10:00 AM	IMPROVING DRUG DELIVERY TO THE TRABECULAR MESHWORK DURING MOUSE EYE PERFUSIONS		Joseph M. Sherwood PhD	
10:00 AM - 10:30 AM	Break			Amphitheater Break Area
10:30 AM - 12:10 PM	Platform Session XI: Regeneration	Ian Pitha, MD, PhD Derek S. Welsbie, MD, PhD		Amphitheatre
10:30 AM - 10:50 AM	GENE THERAPY OF THE TRABECULAR MESHWORK (TM) BY ADENO-ASSOCIATED VIRUS (AAV): LONG-TERM STABLE TRANSGENE EXPRESSION AND INTRAOCULAR PRESSURE (IOP) CONTROL		Andr�s M. Kom�romy, DrMedVet, PhD	
10:50 AM - 11:10 AM	ENHANCED MESENCHYMAL STEM CELL DELIVERY TO THE TRABECULAR MESHWORK USING MAGNETIC NANOPARTICLES		C. Ross Ethier, PhD	
11:10 AM - 11:30 AM	MECHANISMS OF STEM CELL HOMING AND EXTRACELLULAR MATRIX DEGRADATION FOR TRABECULAR MESHWORK REGENERATION		YIQIN DU, MD, PhD	
11:30 AM - 11:50 AM	GENOMIC MODULATION OF OPTIC NERVE REGENERATION IN MICE		Jiaxing Wang	
11:50 AM - 12:10 PM	TRANSPLANTATION OF iPSC-DERIVED RETINAL GANGLION CELLS INTO MOUSE MODELS OF GLAUCOMA		Julia Oswald, PhD	
12:10 PM - 12:55 PM	Keynote Lecture VI: High Content Screening Approaches to Identify Novel Neuroprotective Agents for Glaucoma		Don Zack, MD, PhD	Amphitheatre